

Radio

# AMATEUR

Call Book Magazine

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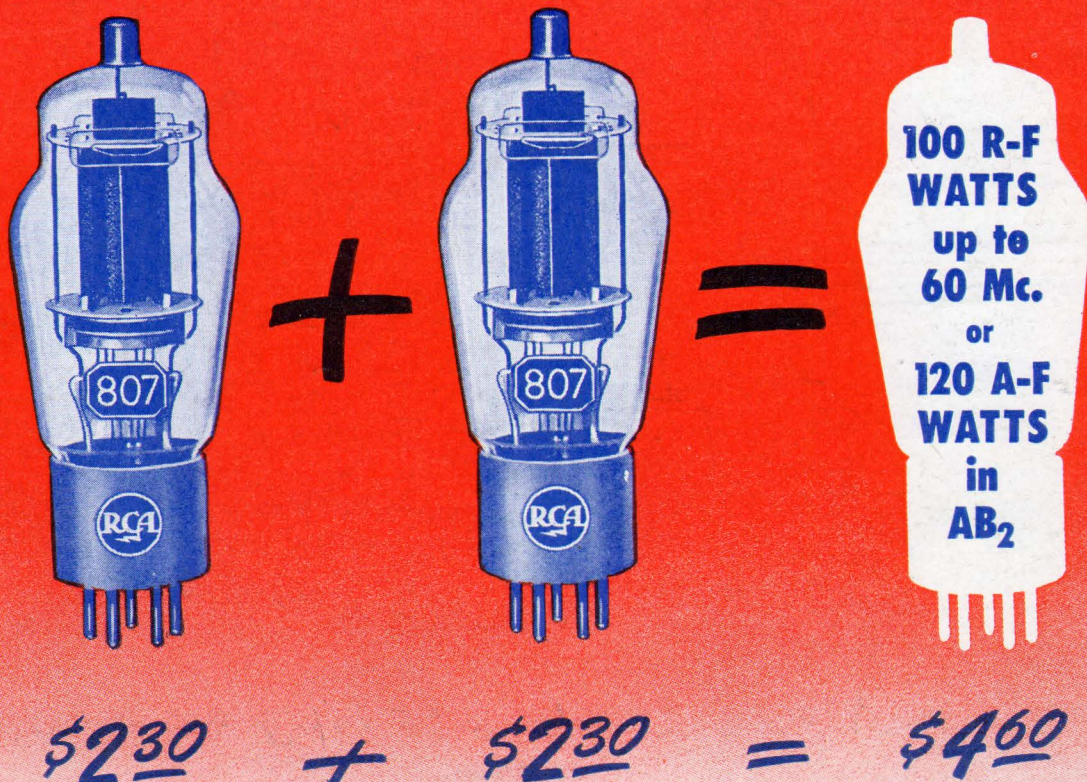
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FALL, 1946



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RCA-807's are still tops in watts-per-dollar value. They will operate without neutralization and they provide high efficiency at low plate voltage.

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2. Two RCA-807's push-pull in ICAS Class C telephony service can deliver 85 watts RF output with 600 volts on their plates.
3. Two RCA-807's push-pull in ICAS Class AB<sub>2</sub> modulator service can deliver 120 watts audio output with 750 volts on their plates.
4. Two RCA-807's push-pull in RF service can be driven by an inexpensive receiving type tube, such as the 6V6, used as a doubler.
5. Two RCA-807's push-pull will take full input and operate at high plate-circuit efficiency at frequencies up to 60 Mc.

For further details, see your local RCA Tube Distributor or write RCA, Commercial Engineering Department, Section A-21G, Harrison, New Jersey.

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**RADIO CORPORATION of AMERICA**

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**WHAT IS THE YARDSTICK FOR MEASURING A SUCCESSFUL HAM STATION?** Many more factors than just a snappy looking shack or a super antenna are concerned. Thousands of hams know that C-D capacitors help them stay "on the air" under the most trying conditions. For Cornell-Dubilier's 36 years of exclusive capacitor manufacture means performance insurance for your rig at maximum economy.

So specify C-D when it comes to capacitors and your message will always be a QSA5.  $\overline{AR} \overline{VA}$

## OUTSTANDING EXAMPLES OF C-D DESIGN AND MANUFACTURE

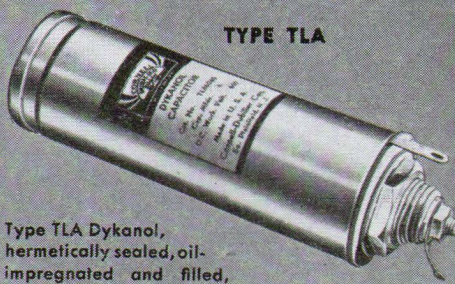
### TYPE TQ

Type TQ Dykanol, hermetically sealed, oil-impregnated and filled, cylindrical can capacitor for filter circuits in amateur, low-power transmitters and high-fidelity P.A. systems and power amplifiers. Available in 12 sizes with D.C. working voltages from 600 to 3000.



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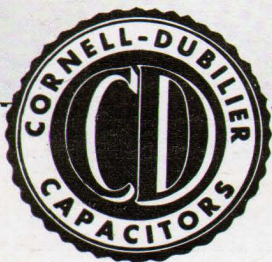


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Type TJU Dykanol hermetically sealed, oil-impregnated and filled transmitting capacitor for use in all amateur, broadcast and commercial equipment. Provided with universal mounting strap and available in over 50 sizes with D.C. working voltages from 600 to 5000.



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*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# RADIO AMATEUR CALL BOOK

## MAGAZINE

For many years we have been accepting orders for bold face listings for those radio amateurs who wanted their QRA in large type. Owing to the many thousands of new calls and modifications that are coming in from the FCC and foreign countries, resulting in a large amount of work for our staff, it is necessary to discontinue this service.

When the current subscriptions for bold face listings expire, these QRA's will be reset in smaller type.

The Editor.

VOLUME 24 NUMBER 3

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**RADIO AMATEUR CALL BOOK**  
(INCORPORATED)

608 South Dearborn Street  
CHICAGO 5, ILLINOIS, U.S.A.  
PHONE WABASH 1903



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### Founder and Publisher

**CHARLES O. STIMPSON**  
W9TRD

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Includes the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut.	
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THIRD DISTRICT .....	56
Includes the States of Pennsylvania, Delaware, Maryland and the District of Columbia.	
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# PREFIXES—BY COUNTRIES

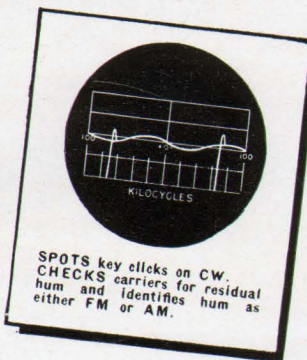
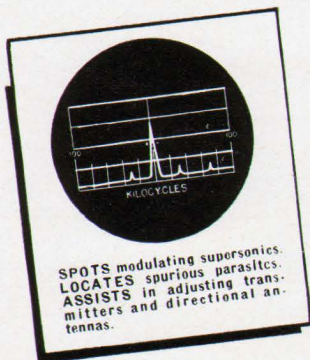
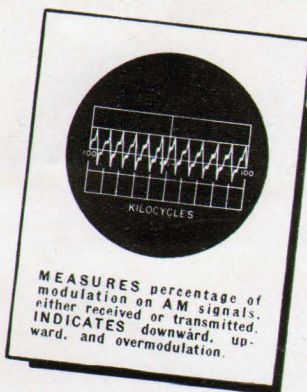
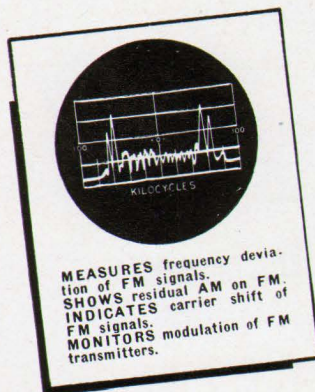
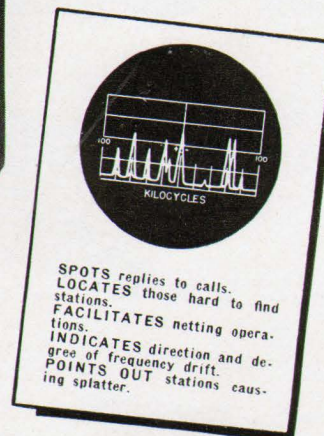
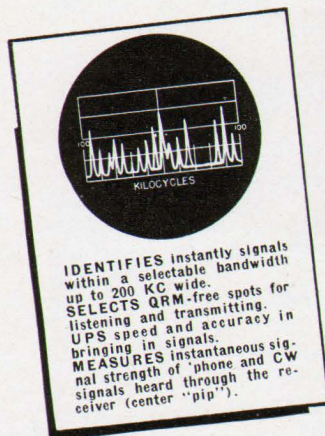
The following countries are listed in the same alphabetical order as they appear in the foreign section. When a country is followed by (see under) it is listed under the country referred to. Example: GM, Scotland is listed under Great Britain in the foreign section. Figures in ( ) show the amount of postage required when mailing from the United States and Possessions. The first figure is for letters (first ounce or fraction) and the second for postal cards (QSLs).

ADEN	(5, 3)	VS9	GAMBIA	(5, 3)	ZD3	PALESTINE	(5, 3)	ZC6
AFGHANISTAN	(5, 3)	YA	GERMANY	(5, 3)	D	PALMYRA IS.	(5, 3)	KP6
ALASKA	(3, 1)	KL7	GIBRALTAR	(5, 3)	ZB2	PANAMA	(3, 2)	HP
ALBANIA	(5, 3)	ZA	GILBERT & ELLICE IS.	(5, 3)	VR1	PAPUA TERRITORY	(see under Australia)	
ALGERIA	(5, 3)	FA	GOA	(see Portuguese India)		PARAGUAY	(3, 2)	ZP
ANDORRA	(5, 3)	PX	GOLD COAST	(5, 3)	ZD4	PERSIA	(see Iran)	
ANGOLA	(5, 3)	CR6	GREAT BRITAIN	(5, 3)	G	PERU	(3, 2)	OA
ANTARCTICA	(5, 3)	KC4	GREECE	(5, 3)	SV	PHILIPPINE IS.	(3, 1)	KA
ANTIGUA	(5, 3)	VP2	GREENLAND	(5, 3)	OX	PHOENIX IS.	(3, 1)	KB6
ARGENTINA	(3, 2)	LU	GRENADA	(5, 3)	VP2	PITCAIRN I.	(5, 3)	VR6
ASCENSION I.	(5, 3)	ZD8	GUADELOUPE	(5, 3)	FG8	POLAND	(5, 3)	SP
AUSTRALIA	(5, 3)	VK	GUAM	(3, 1)	KG6	PORTO RICO	(3, 1)	KP4
AZORES IS.	(5, 3)	CT2	GUATEMALA	(3, 2)	TG	PORTUGAL	(5, 3)	CT1
			GUIANA (Netherlands)	(see under Surinam)		PORTUGUESE GUINEA	(5, 3)	CR5
						PORTUGUESE INDIA	(5, 3)	CR8
BAHAMA IS.	(5, 3)	VP7	HAITI	(3, 2)	HH	REUNION IS.	(5, 3)	FR8
BAHREIN IS.	(5, 3)	VU7	HAWAIIAN IS.	(3, 1)	KH6	ROUMANIA	(5, 3)	YR
BAKER I.	(3, 1)	KB6	HEDJAZ	(5, 3)	HZ	RUSSIA	(5, 3)	UA, UB, UC
BALEARIC IS.	(see under Spain)		HONDURAS	(3, 2)	HR			
BARBADOS	(5, 3)	VP6	HONG KONG	(5, 3)	VS6	SAINT HELENA	(5, 3)	ZD7
BELGIAN CONGO	(5, 3)	OQ5	HOWLAND I.	(3, 1)	KB6	SAINT KITTS	(5, 3)	VP2
BELGIUM	(5, 3)	ON	HUNGARY	(5, 3)	HA	SAINT LUCIA	(5, 3)	VP2
BERMUDA IS.	(5, 3)	VP9				SAINT VINCENT	(5, 3)	VP2
BOLIVIA	(3, 2)	CP	ICELAND	(5, 3)	TF	SALVADOR	(3, 2)	YS
BORNEO (Br. North)	(5, 3)	VS4	INDIA	(5, 3)	VU	SAMOA (U.S.)	(3, 1)	KS6
BORNEO (Neth. Indies)	(see under Neth. Indies)		IRAN (ex-Persia)	(5, 3)	EP	SAMOA (Western)	(5, 3)	ZM6
BRAZIL	(3, 2)	PY	IRAQ	(5, 3)	YI	SARAWAK	(5, 3)	VS5
BRITISH GUIANA	(5, 3)	VP3	IRELAND	(5, 3)	EI	SCOTLAND	(5, 3)	GM
BRITISH HONDURAS	(5, 3)	VP1	ISLE OF MAN	(see under Great Britain)	I	SEYCHELLES	(5, 3)	VQ9
BR. SOLOMON IS.	(5, 3)	VZ	ITALY	(5, 3)	I	SIBERIA	(see U. S. S. R.)	
BULGARIA	(5, 3)	LZ	JAMAICA	(5, 3)	VP5	SIERRA LEONE	(5, 3)	ZD1
BURMA	(5, 3)	XZ	JAN MAYEN I.	(5, 3)	OY	SOMALILAND (British)	(5, 3)	VQ6
			JAPAN	(5, 3)	J	SOMALILAND (French)	(5, 3)	FL8
CAMEROONS (British)	(see under Nigeria)		JARVIS I. (Palmyra Group)	(3, 1)	KP6	SOUTH AFRICA	(5, 3)	ZS
CAMEROONS (French)	(5, 3)	FE8	JAVA	(see under Neth. Indies)		SOUTH GEORGIA	(5, 3)	VP8
CANADA	(3, 2)	VE	JOHNSTON IS.	(3, 1)	KE6	SOUTH ORKNEY IS.	(5, 3)	VP8
CANAL ZONE	(3, 1)	KZ5	KENYA	(5, 3)	VQ4	SOUTH SHETLAND IS.	(5, 3)	VP8
CANARY IS.	(see under Spain)		KWANTUNG	(see under Japan)		SOUTHERN RHODESIA	(5, 3)	ZE
CANTON I.	(3, 1)	KP6	LABRADOR	(see under Newfoundland)		SOUTHWEST AFRICA	(see under South Africa)	
CAPE VERDE IS.	(5, 3)	CR4	LATVIA	(5, 3)	YL	SPAIN	(3, 2)	EA
CAYMAN IS.	(5, 3)	VP5	LEEWARD IS.	(Alphabetically listed by Islands)		STRAITS SETTTS	(see under Malaya)	
CELEBES IS.	(see under Neth. Indies)		LIBERIA	(5, 3)	EL	SUDAN	(5, 3)	ST
CEYLON	(5, 3)	VS7	LITHUANIA	(5, 3)	LY	SUMATRA	(see under Neth. Indies)	
CHAGOS IS.	(see under Mauritius)		LUXEMBOURG	(5, 3)	LX	SURINAM	(5, 3)	PZ
CHANNEL IS.	(5, 3)	GC				SWAN IS.	(5, 3)	KS4
CHILE	(3, 2)	CE	MACAU	(5, 3)	CR9	SWEDEN	(5, 3)	SM
CHINA	(5, 3)	XU	MADAGASCAR	(5, 3)	FB8	SWITZERLAND	(5, 3)	HB
CHOSEN (Korea)	(see under Japan)		MADEIRA IS.	(5, 3)	CT3	SYRIA	(5, 3)	AR
CHRISTMAS I.	(5, 3)	ZC3	MALAYA	(5, 3)	VS9			
COCOS IS.	(5, 3)	ZC2	MALTA	(5, 3)	ZB1	TAHITI	(5, 3)	FO8
COLOMBIAN REP.	(3, 2)	HK	MANCHUKUO	(5, 3)	MX	TAIWAN (Formosa)	(see under Japan)	
COOK IS.	(5, 3)	ZK1	MARSHALL IS.	(see under Japan)		TANGANYIKA	(5, 3)	VQ3
COSTA RICA	(3, 2)	TI	MARTINIQUE	(5, 3)	FM8	TANGIER ZONE	(5, 3)	EK1
CRETE	(see under Greece)		MAURITIUS	(5, 3)	VQ8	TASMANIA	(see under Australia)	
CUBA	(3, 2)	CM-CO	MEXICO	(3, 2)	XE	THAILAND	(5, 3)	HS
CURACAO	(5, 3)	PJ	MIDWAY I.	(3, 1)	KM6	TIBET	(5, 3)	AC4
CYPRUS	(5, 3)	ZC4	MIQUELON & ST. PIERRE IS.	(5, 3)	FP8	TIMOR (Portuguese)	(5, 3)	CR10
CZECHOSLOVAKIA	(5, 3)	OK	MOLUCCA IS.	(see under Neth. Indies)		TOBAGO	(5, 3)	VP4
			MOROCCO (French)	(5, 3)	CN8	TOGOLAND (British)	(5, 3)	ZD4
DANZIG	(5, 3)	YM	MOROCCO (Spanish)	(see under Spain)		TOGOLAND (French)	(5, 3)	FD8
DENMARK	(5, 3)	OZ	MOZAMBIQUE	(5, 3)	CR7	TONGA (Friendly) IS.	(5, 3)	VR5
DOMINICA	(3, 2)	VP2				TRANSJORDANIA	(5, 3)	ZC1
DOMINICAN REP.	(3, 2)	HI	NETHERLANDS	(5, 3)	PA, PI	TRINIDAD	(5, 3)	VP4
DUTCH EAST INDIES	(see Neth. Indies)		NETHERLAND INDIES	(5, 3)	PK	TRISTAN DA CUNHA	(5, 3)	ZD9
			NETH. WEST INDIES	(see under Curacao)		TUNIS	(5, 3)	FT4
ECUADOR	(3, 2)	HC	NEW CALEDONIA	(5, 3)	FK8	TURKEY	(5, 3)	TA
EGYPT	(5, 3)	SU	NEWFOUNDLAND	(3, 2)	VO	TURKS & CAICOS IS.	(5, 3)	VP5
ELLICE IS.	(see under Gilbert & Ellice Is.)		NEW GUINEA (Neth. Indies)	(see under Neth. Indies)				
ENDERBURY I.	(3, 1)	KB6	NEW GUINEA (Ter. of)	(see under Australia)		UGANDA	(5, 3)	VQ5
ESTONIA	(5, 3)	ES	NEW HEBRIDES	(5, 3)	FU8, YJ	UNITED STATES	(3, 1)	W
ETHIOPIA	(5, 3)	IT	NEW ZEALAND	(5, 3)	ZL			
			NICARAGUA	(3, 2)	YN	VENEZUELA	(3, 2)	YV
FAEROES IS.	(5, 3)	OY	NIGERIA	(5, 3)	ZD2	VIRGIN IS.	(3, 1)	KV4
FALKLAND IS.	(5, 3)	VP8	NIUE	(5, 3)	ZK2			
FANNING I.	(5, 3)	VR3	NON-FED. MALA YSTATES	(see under Malaya)		WAKE IS.	(3, 1)	KW6
FED. MALAY STATES	(see under Malaya)		NORTHERN IRELAND	(5, 3)	GI	WALES	(5, 3)	GW
FIJI IS.	(5, 3)	VR2	NORTHERN RHODESIA	(5, 3)	VO2	WINDWARD IS.	(Alphabetically listed by Islands)	
FINLAND	(5, 3)	OH	NORWAY	(5, 3)	LA			
FRANCE	(5, 3)	F3, F8	NYASALAND	(5, 3)	ZD6	YUGOSLAVIA	(5, 3)	YT, YU
FR. EQUATORIAL AFRICA	(5, 3)	FQ8				ZANZIBAR	(5, 3)	VQ1
FRENCH GUIANA	(5, 3)	FY8						
FRENCH INDIA	(5, 3)	FN						
FR. INDO-CHINA	(5, 3)	FI8						
FRENCH W. AFRICA	(5, 3)	FF8						
			OCEAN I.	(see Gilbert & Ellice Is.)				



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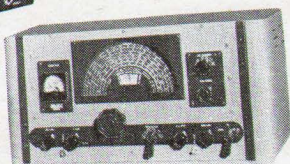


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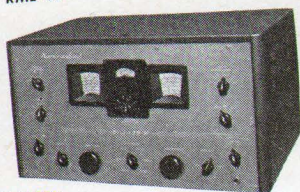
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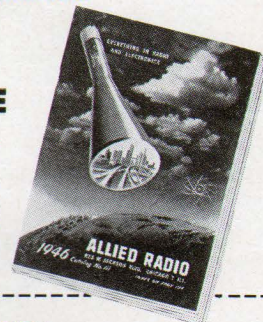
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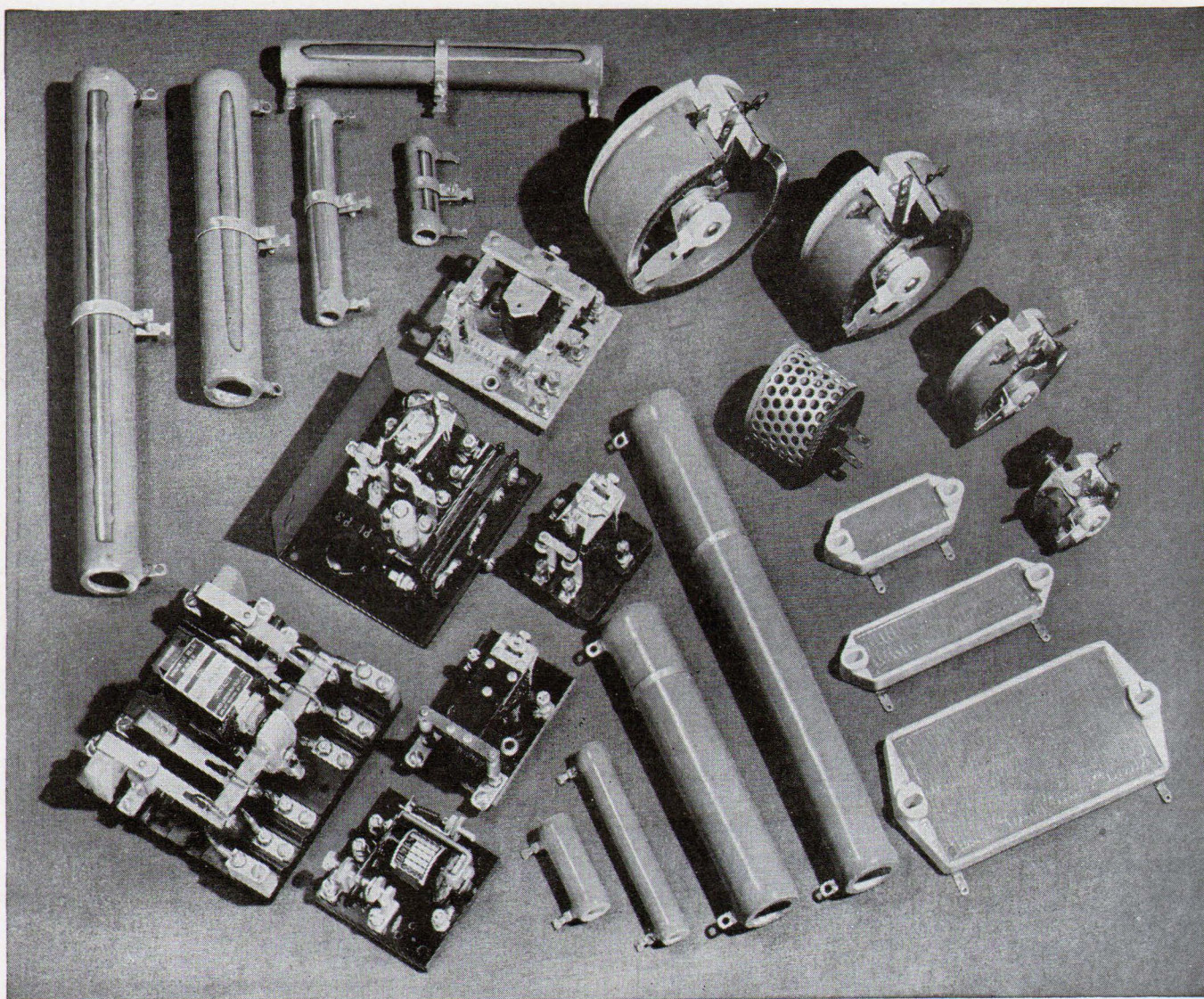
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### — the 6K4 Cathode Type Tube —



THE NEW SYLVANIA 6K4

Another development of special interest to hams—the 6K4! This H.F. oscillator—in the new T-3 size—is ideally suited for your use. It's compact, rugged—developed from the famous proximity fuze tube that was made to be shot from a gun.

Just as Sylvania pioneered the development of the T-3 "war-baby"

—from which has come this new, great 6K4—so have they actively contributed to the development of all types of transmitting tubes. Sylvania was the first to use graphite anodes in transmitting tubes!

Write today for full details about the 6K4—Sylvania Electric's new high frequency oscillator.

SHARE WHEAT AND  
FATS . . . FIGHT  
FAMINE!



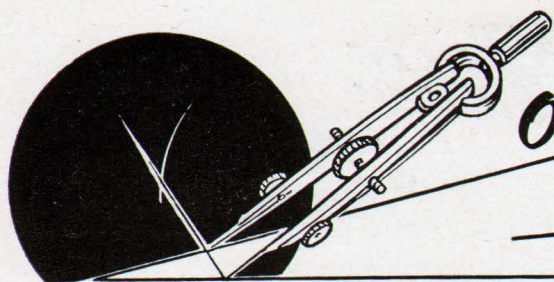
# SYLVANIA ELECTRIC

Electronics Division . . . 500 Fifth Avenue, New York 18, N. Y.

MAKERS OF ELECTRONIC DEVICES; RADIO TUBES; CATHODE RAY TUBES; FLUORESCENT LAMPS, FIXTURES, WIRING DEVICES; ELECTRIC LIGHT BULBS

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine





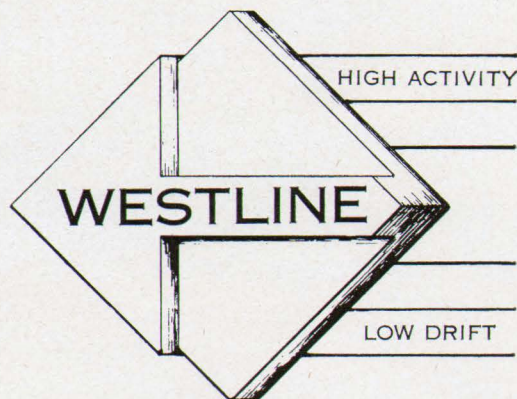
*Out of the  
Crucible of War*

COMES A

## BETTER PRECISION-MADE CRYSTAL



*The Newest Name  
In Crystals*



### ***New Production Methods Give You Improved Performance***

Now available to amateurs, Crystal Units made with new X-RAY and POLAROID process, a WESTLINE feature resulting from four years of rigid war production. Here are some of the outstanding features...

- 1 GENUINE BRAZILIAN QUARTZ** . . . carefully selected, expertly processed by Master Craftsmen.
- 2 CONSTANT CALIBRATED FREQUENCY** . . . throughout the life of each unit. Drift averages less than 1 cycle/MC/°F. in WESTLINE units.
- 3 COMPACT HOLDERS** . . . sturdy bakelite construction. Designed for maximum performance.
- 4 GREATER PRECISION** . . . WESTLINE units, unless marked otherwise, are furnished within 1 KC of specified frequency . . . at no extra cost to you.
- 5 VERSATILE** . . . six units to choose from. Whether you wish "extremely high output" or "3rd harmonic" WESTLINE has the unit to do the job effectively, adapted from years of experience in the amateur field. That's why you get constant frequency . . . better performance when you use WESTLINE CRYSTALS.

*Consult your Short Wave Radio Dealer or write  
Factory direct stating your Crystal Requirements*

# WESTLINE CRYSTAL COMPANY

***Manufacturers of Quartz Crystals for Radio Frequency Control***

**10860 SANTA MONICA BLVD.**

**LOS ANGELES 25, CALIF.**

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*New! Spectacular! Complete!*

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**SEE...**

the first peacetime Concord line of modern Radio Sets and Radio Phonograph combinations—featuring a host of new, approved post-war developments . . . richer tone quality . . . super-selective tuning and reception . . . high fidelity . . . new modern design cabinets.

**SEE...**

the thrilling new MULTIAMP Add-A-Unit Amplifiers, an entirely new and revolutionary development in amplifier engineering with sensational new flexibility, power, fidelity and economy—EXCLUSIVE WITH CONCORD!

All in the new complete Concord Catalog . . . mail the coupon now.

Here's the great, new first post-war Concord Catalog—displaying the most complete stocks in years! Mail the coupon below for your copy today and feast your eyes on pages and pages of ham gear, kits, supplies, equipment, parts, and accessories for all radio and electronic use. All your old friends are fully represented—the reliable standard lines you have depended on for years for top-quality equipment . . . Hallicrafters, Hammarlund, Cornell-Dubilier, Shure, U.T.C., National, Aerovox, Jones, Bud, R.M.E., Speed-X, Bliley, Triplett, G.E., R.C.A., Simpson, and other nationally-known makers. See complete lines of tubes, condensers, resistors, meters, controls, switches, relays, transformers, generators, microphones, speakers, tools—everything for building, experimenting, repair and maintenance in radio and electronics. Thousands of items. Money-saving prices. And fast-service direct from Concord's two centrally-located warehouses in CHICAGO and ATLANTA. Your copy of the new Concord Catalog is ready. Mail the coupon below today.

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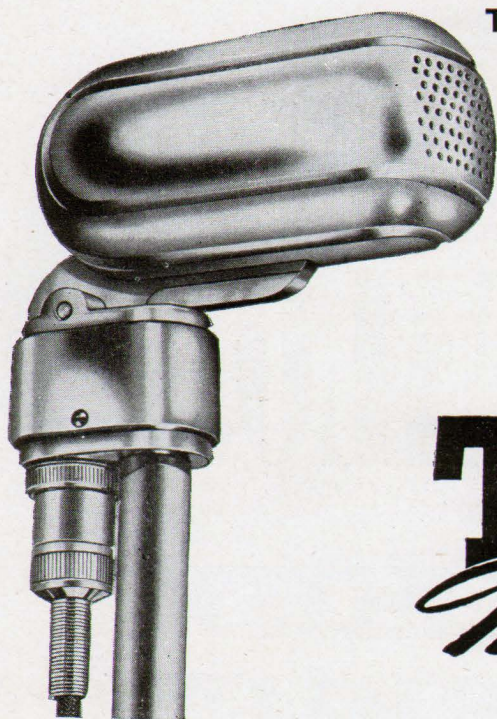
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## TURNER MICROPHONES—CERTIFIED PERFORMANCE

Precision engineered to amplify all vibrations received by the diaphragm without adding any of the harmonics, TURNER Microphones are rugged instruments that assure clear, sharp communications without distortion. Every unit is thoroughly tested and "Certified" before leaving the factory. For utmost in style and dependable performance under severe operating conditions Turn to Turner.

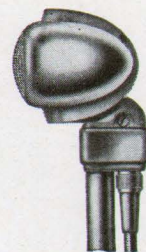
# Turner Microphones

### New 211 Dynamic

Engineered for highest quality recording, P. A., sound system and broadcast work, including FM. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Range 30-10,000 cycles. Level -54DB. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set with balanced line connection.

### Famous TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Feedback cut to minimum. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected from changes in barometric pressure. Range 30-7000 cycles. Level -52DB. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Range 30-8000 cycles. Level -52DB. In 50, 200, 500 ohms, or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.



### TURNER CHALLENGERS Offer Plus Performance at Low Cost



#### MODEL BX

CRYSTAL mike for recording, P.A. and ham work. Bronze enamel finish. Level -52DB. Range 50-6,000 cycles. An excellent unit. With 7 ft. cable.

#### MODEL BD

DYNAMIC, same finish as BX. Works indoors or out. Level -52DB. Range 50-6,000 cycles. 200-250 ohms, 500 ohms or high impedance. 7 ft. cable.

#### MODEL CX

CRYSTAL, in rich brushed chrome finished case. 7 ft. removable cable set uses Amphenol connectors. Level -52DB. Range 50-7,000 cycles.

#### MODEL CD

DYNAMIC, same style and finish as CX with 7 ft. removable cable set. In 200-250 ohms, 500 ohms or high impedance. Level -52DB. Range 50-7,000 cycles.



### TURNER 99 Dynamic

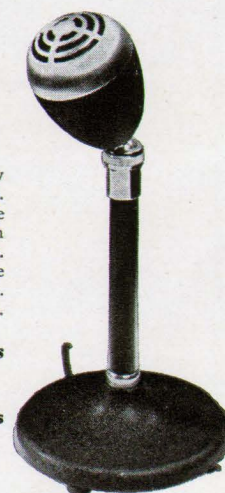
The most rugged microphone in the entire Turner line. Engineered and built for the discriminating user who wants utmost in efficiency and dependability. Withstands severe climate and temperature changes. Semi- or non-directional operation. Fine gun-metal finish. Response 40-9000 cycles. Level -52DB. In 50, 200, 500 ohms, or high impedance models with 20 ft. removable cable set. Also available as 999 with Balanced Line features for critical applications.

### New, Improved VT-73 DESK MICROPHONE

Stepped up in both performance and styling, the new Turner VT-73 is engineered for clear, crisp voice pick-up. Ideal for recording, P.A. and Ham use. Rising curvature of response between 500-4000 cycles emphasizes speech frequencies. Practically doubles your effective power. Moisture proofed crystal has output of -52DB. Range 50-7000 cycles. Finished in black crinkle and chrome. Complete with ball swivel head, stand, and 7 ft. cable.

*A World Wide Favorite with Prominent Hams  
for Quality Reports*

COMPLETE CATALOG—Gives specifications and prices of all Turner Microphones. Write for Free Copy.



## THE TURNER COMPANY

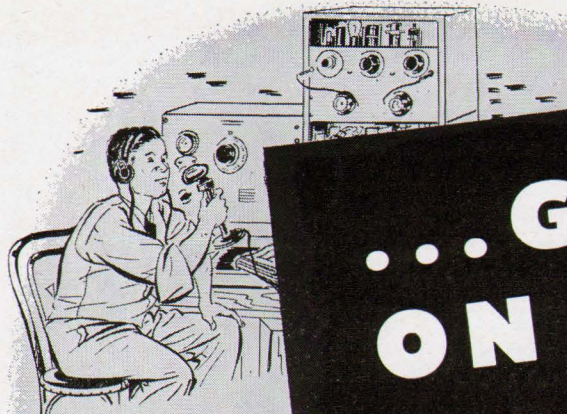
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Licensed under U. S. Patents of the American Telephone and Telegraph Company and Western Electric Company, Incorporated. Crystals licensed under patents of the Brush Development Company.

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# ...GET BACK ON THE AIR

★ SAVE CONSTRUCTION HOURS

★ BE SURE AS YOU BUILD

The Simpson Model 240 was introduced in 1939. In the two short years before "Hams" went off the air, this remarkable general service instrument built itself such a reputation that the demand for it has never ceased. During the war it was supplied to the Services in limited quantities. It has undergone steady improvement as the result of test and research. Now we can offer it to you again, a vastly better instrument than before—and it was always a sensational instrument.

Completely self-contained, needing no external multipliers, with a sensitivity of 1000 ohms per volt and a maximum voltage of 3000 volts A.C. or D.C., it has all the variety of useful ranges needed to do an all-around job for you.

The 3-inch meter has a scale over  $\frac{1}{3}$  greater than before, offers greater accu-

racy in reading. The whole chassis is encased in heavy molded bakelite. All components and the sub-panel are mounted directly on the bakelite panel for easy servicing and greater sturdiness. All figures are engraved and filled with white enamel for greater legibility and wearing qualities.

Shock-proof, it has the famous Simpson movement with bridge-type construction and soft iron pole pieces, resistors in matched pairs to provide greatest possible accuracy for all ranges. It is furnished with test leads whose wire covering is capable of withstanding 3000 volts. Alligator clips have safety rubber guards.

Here is the instrument that will get you on the air and keep you there, helping you to build soundly and to troubleshoot speedily and surely.

## RANGES

VOLTS A. C.	VOLTS D. C.	MILLIAMPERES D. C.
0-15	0-15	0-15
0-150	0-75	0-75
0-750	0-300	0-300
0-3,000	0-750	0-750
	0-3,000	

Ohms: 0-3,000 (center scale 30)  
0-300,000 (center scale 3,000)

**THE NEW SIMPSON MODEL 240—THE "HAMMETER"**  
—1946 version of the first self-contained pocket portable instrument built expressly to check high voltage and all component parts of transmitters and receivers.

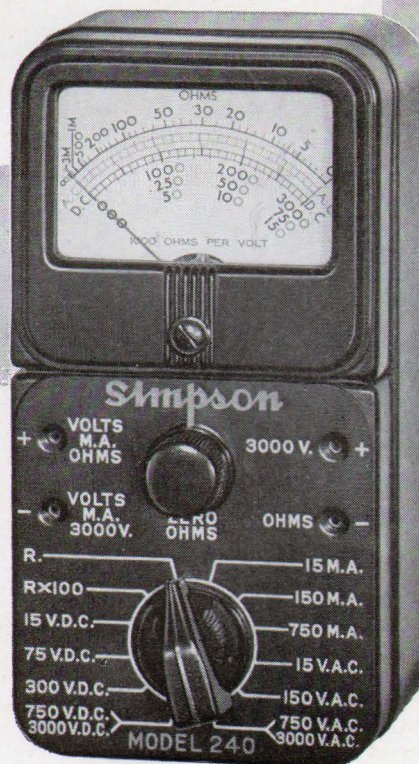
Price, complete with test leads.....\$26.50

Ask Your Jobber

SIMPSON ELECTRIC CO.  
5200-5218 W. Kinzie St., Chicago 44

# Simpson

INSTRUMENTS THAT STAY ACCURATE

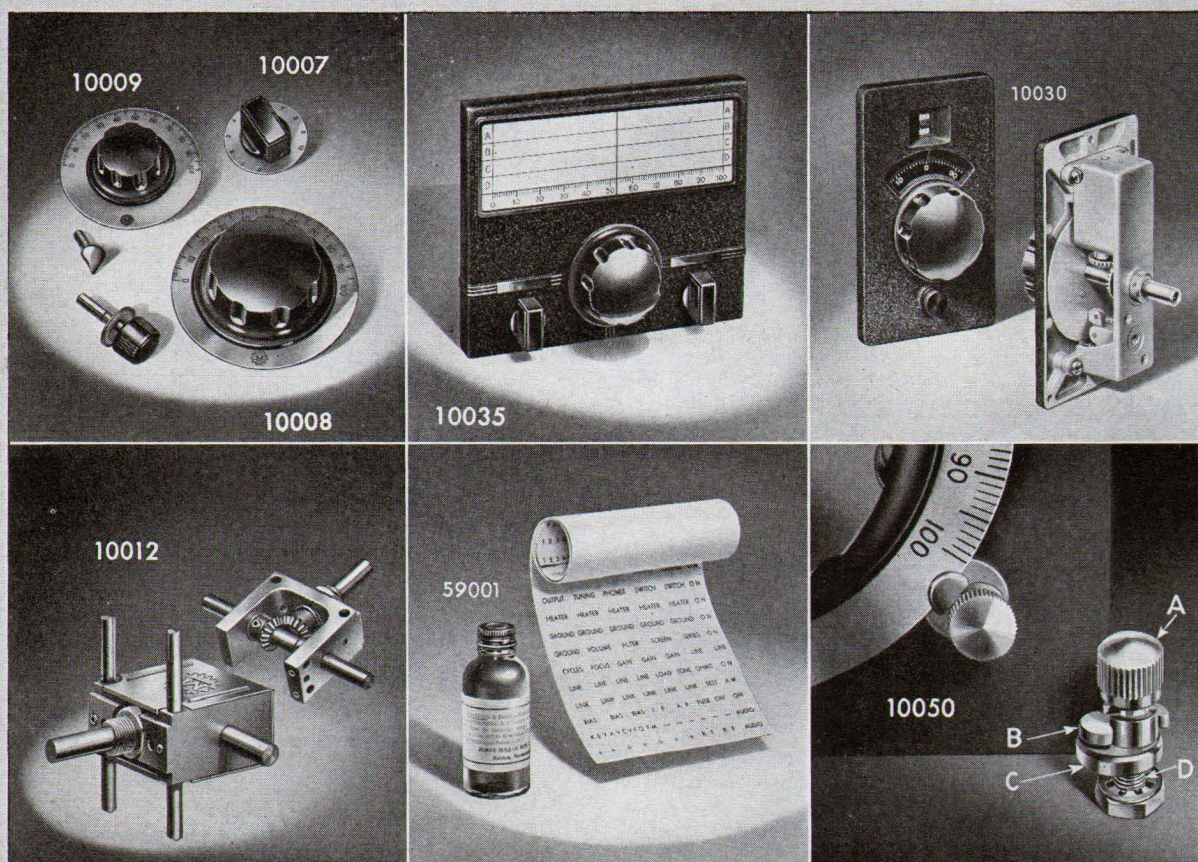




# Designed for Application



Millen "Designed for Application" components are different! As a designer and manufacturer for many years of complex electronic and communication equipment, we are our own best customer for component parts. Consequently, we have to perform an outstanding job of designing and manufacturing such parts in order to satisfy our own applications. Our parts are "different", also, because as symbolized by the "Gear wheel" of our registered trade mark, they are designed by mechanical engineers working in close cooperation with our electronic circuit group. Below are illustrated a typical half dozen of the thousand-odd items we manufacture.



Illustrated above, left to right; Top row: The No. 10007, 8 and 9 group of nickel silver plain dials with specially designed matching knobs having accurately reamed brass bushings to insure concentricity, the No. 10035 Vernier dial and the No. 10030 multi-revolution Counter-dial. Bottom row: The No. 10012 multi-application right angle drive unit, the No. 59001 panel marking decalomania kit, and the No. 10050 dial lock.

## JAMES MILLEN MFG. CO., INC.

MAIN OFFICE AND FACTORY

**MALDEN  
MASSACHUSETTS**

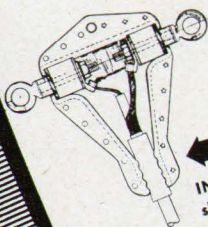
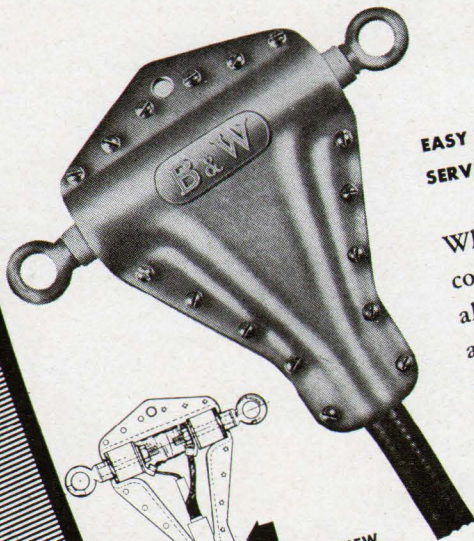
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ASTRAL ELECTRIC CO.  
SCARBORO BLUFFS (TORONTO)



**B&W****COAXIAL CABLE CONNECTOR**

EASY TO INSTALL • ABSOLUTELY WATERTIGHT • SEALS CABLE END  
SERVES AS A CENTER INSULATOR OF A HALF-WAVE DOUBLET



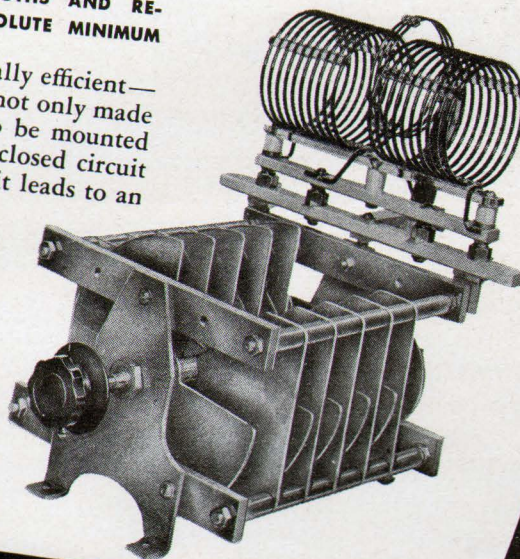
INTERIOR VIEW  
showing ease of  
making connections

Why bother with inefficient, home-made coaxial cable connections? The new B & W CC-50 Connector does this all-important job in a jiffy *and does it right*. The seal is absolutely watertight, the connector is easy to install. It also serves as the center insulator of a half-wave doublet. Made of cast aluminum with forged steel eyebolts with easy soldering connections. Has steatite insulation. \$5 amateur net. Featured by leading jobbers everywhere — or write for leaflet.

**STOPS "Leaks" IN TANK CIRCUITS!**

COIL MOUNTED DIRECTLY ON VARIABLE CAPACITOR • ELIMINATES WIRING • REDUCES TUNED CIRCUIT LEAD LENGTHS AND RESULTING CLOSED CIRCUIT LOSSES TO AN ABSOLUTE MINIMUM

Treat your new rig to a tank circuit that's really efficient—because both variable capacitor and coil are not only made by B & W, but because they're designed to be mounted together! This unique design eliminates all closed circuit wiring and reduces the length of tuned circuit leads to an absolute minimum. Perfect design symmetry is achieved in the B & W CX Variable Capacitors by use of an opposed stator and butterfly type rotor. Opposed stator sections provide short R-F paths. Grounding of the rotor is done at the same R-F voltage point with respect to stators. Provision is made for built-in neutralizing capacitors. Honest-to-goodness efficiency is assured in EVERY respect! Write for Catalog 75-C.

**BARKER & WILLIAMSON**

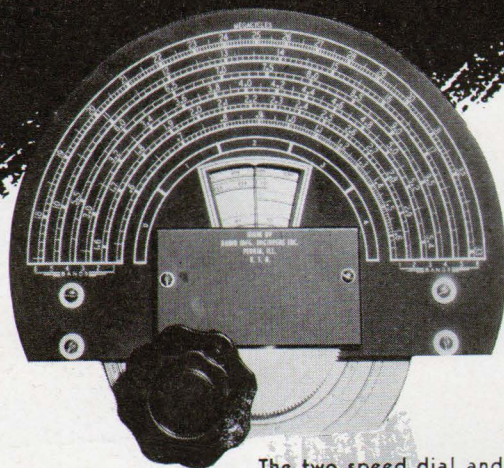
INDUCTOR COIL HEADQUARTERS

237 FAIRFIELD AVENUE, UPPER DARBY, PENNA.



# RME Announces CAL-O-MATIC

## TWO SPEED TUNING AND CALIBRATED BANDSPREAD



The two speed dial and calibrated bandspread scale provide the maximum in mechanical and electrical efficiency!

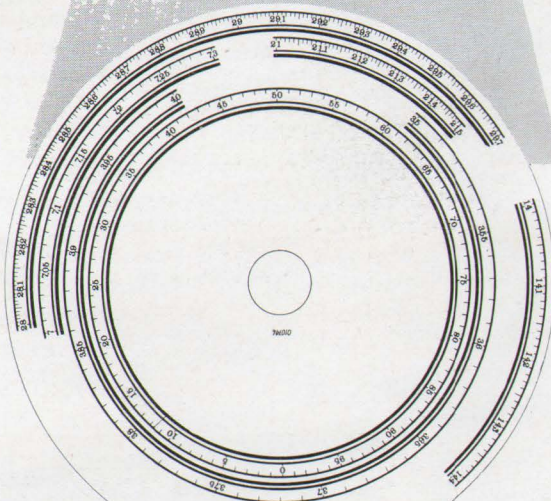
### CONSTANTLY IMPROVED -- BUT NO YEARLY MODELS

#### IN THE RME 45 YOU WILL NOW FIND:

1. Two Speed Tuning. A dual drive mechanism is now provided, in line with the calibrated band spread scale, which gives rapid tuning to cover the band, slow tuning to locate that station. Smooth, effortless, single dial control, calibration on five amateur bands, plenty of spread and real efficiency.
2. Voltage Regulation. Incorporated as an added feature, the RME 45 is now equipped with a VR 150 regulator tube to further reduce any drift to an absolute minimum and to stabilize the overall performance of an already fine instrument. You will like this addition.
3. Improved Noise Limiter. To make operation in a noisy location more enjoyable, a series noise limiter with an ON-OFF switch is being built into the RME 45. It works exceptionally well on all types of interference and goes after the spark-plug type with a vengeance.

Now more than ever, you MUST hear the RME 45 perform!

View of the translucent calibrated bandspread scale.



Specification Sheet  
on Request



# RME

FINE COMMUNICATIONS EQUIPMENT

**RADIO MFG. ENGINEERS, INC.**  
Peoria 6, Illinois U. S. A.

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for the LATEST and BEST in

# HAM GEAR

**HUGE STOCKS • FAST SERVICE  
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COURTESY • UNDERSTANDING**

**AMATEURS** "in the know" are turning more and more to Newark because they have found that Newark can supply their ham gear requirements. Backing up Newark's huge inventory of nationally known components, sets and testing equipment is a competent staff of technical men who speak ham lingo, ready and anxious to serve you. For Newark is a ham house — hams behind the counter to help you with all rig-building problems....

**NEWARK'S** three large, conveniently located stores stock all the latest equipment on the market, and issue periodic bulletins on what's new. We will be glad to mail you copies, as well as our complete new catalog. Simply send us your name and address on a postcard.

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## GET ON THE NEWARK LIST TO RECEIVE PROMPT NEWS OF THE LATEST EQUIPMENT BARGAINS

Magazines go to press weeks before you see them. That means that advertisements cannot possibly show the very latest bargains that Newark is constantly adding to its shelves in Chicago and New York. So send your name and address in now. Just ask for the Big Bargain Bulletins.

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Corning  
Coto-Coil  
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Pioneer  
Premax  
Presto  
Radio City  
RCA  
Rauland  
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## WHEN IN CHICAGO OR NEW YORK, SPEND SOME TIME AT NEWARK'S INTERESTING BARGAIN COUNTERS

The variety of surplus material coming onto the market today is fascinating. Some items are so scarce that we could not advertise them because we wouldn't have enough to go around. These are put on the bargain counters. Come in and spend an interesting few hours looking at this scarce gear.

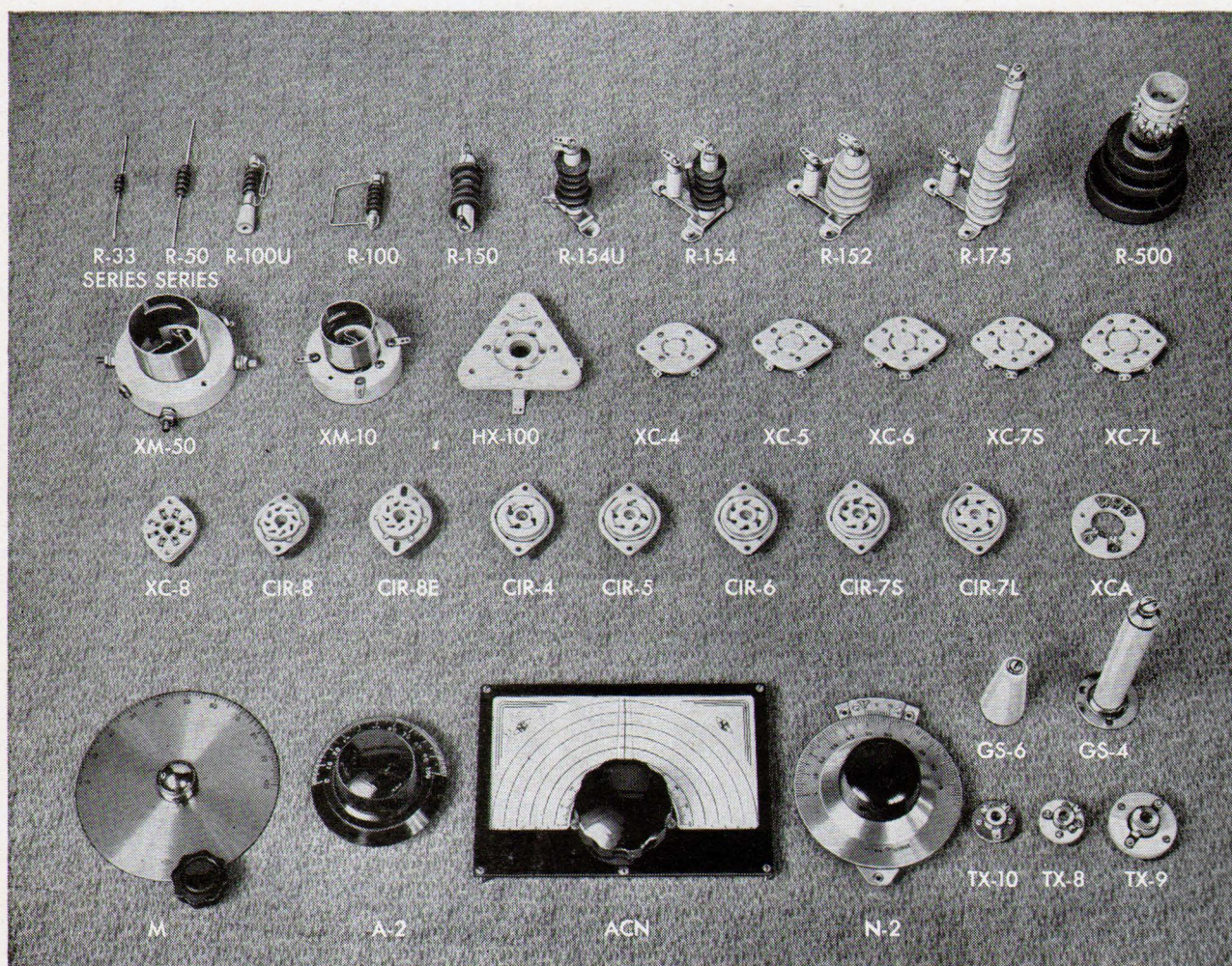
Electro-Voice  
Erie  
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General-Radio  
Guardian  
Hallicrafters  
Hammarlund  
Hewlett-Packard  
Hytron  
IRC  
Jensen

Supreme  
Sylvania  
Solar  
Tobe  
Triplett  
Tung-Sol  
Turner  
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Ward Leonard  
Ward  
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Weston



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## NATIONAL PARTS FOR YOUR RIG

### NEW 1946 CATALOGUE

Get a copy of the new 18-page National Catalogue from your dealer.



National Parts are back again after a distinguished wartime service. You will find nearly everything it takes to make a fine amateur station within the pages of the National Catalogue. Some time-tested units will need no introduction, for they have served amateurs faithfully for many years. Others are brand new, like the HX-100 socket which takes all tubes having the Giant 5-pin base, including Eimac 4-125-A's and 4-250-A's. The little XLA socket, born of military necessity, brings new reliability and better performance to acorn tubes at frequencies up to 600 MC.

Take a look at the National Catalogue. It shows parts you need, built the way you like them and designed to make the best of all hobbies more fun than ever.

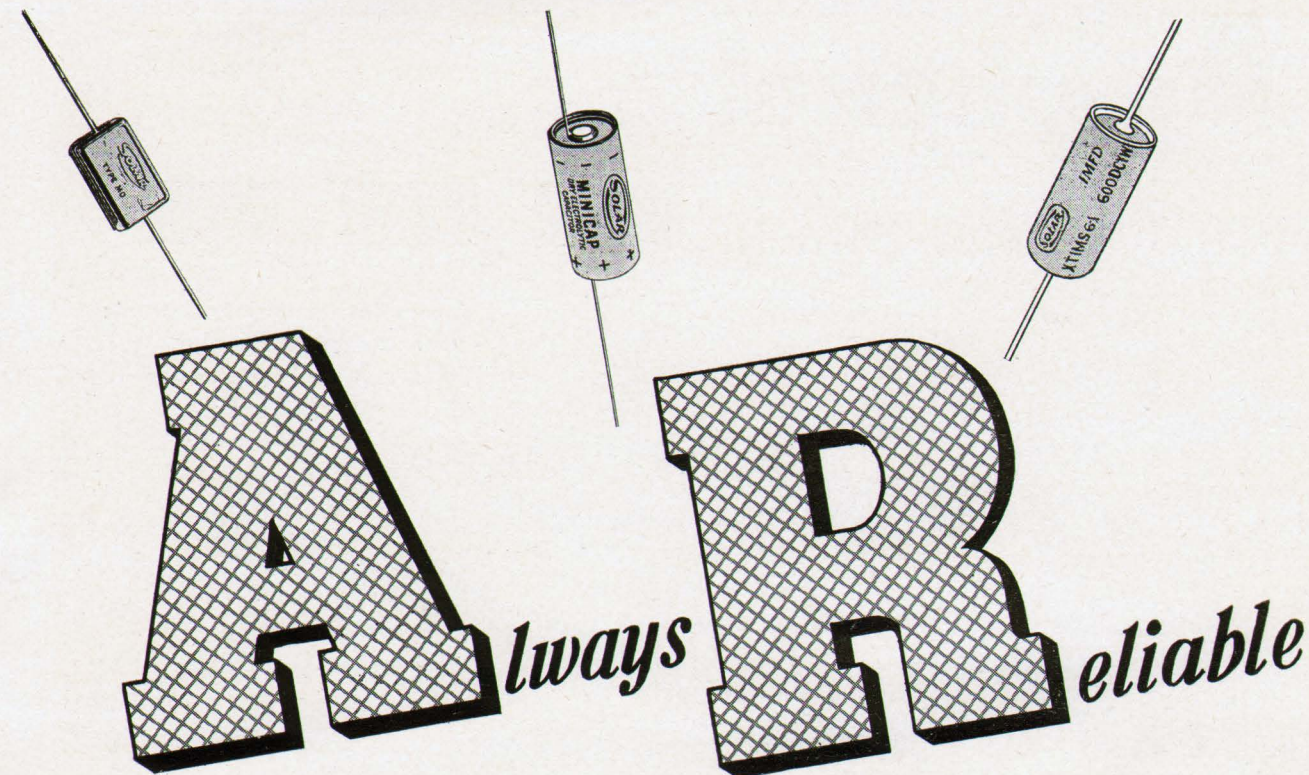
**NATIONAL**  
MALDEN



**COMPANY**  
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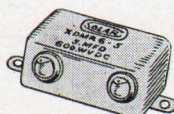
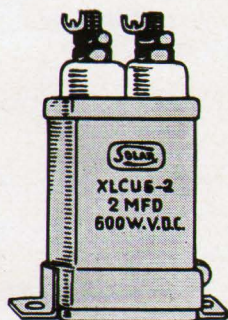
## SOLAR CAPACITORS



There's one never-ending message that the Solar name on a capacitor stands for to radiomen everywhere—assurance of reliability in service.

For behind the **SOLAR** seal stands a thorough system of rigid manufacturing control to back up the Solar slogan—"Quality Above All".

Built to stand up in severe service in all climates, Solar capacitors are available in a type for every service, industrial and amateur need. Send for your catalog today.



**P. S.** Do you read the Solar System for regular news on developments in the capacitor field? If not, drop us a note to place your name on the mailing list without charge.

Ⓢ 1680

**SOLAR CAPACITOR SALES CORPORATION**  
285 MADISON AVENUE, NEW YORK 17, N. Y.  
ELECTROLYTIC, PAPER AND MICA CAPACITORS



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# Amphenol

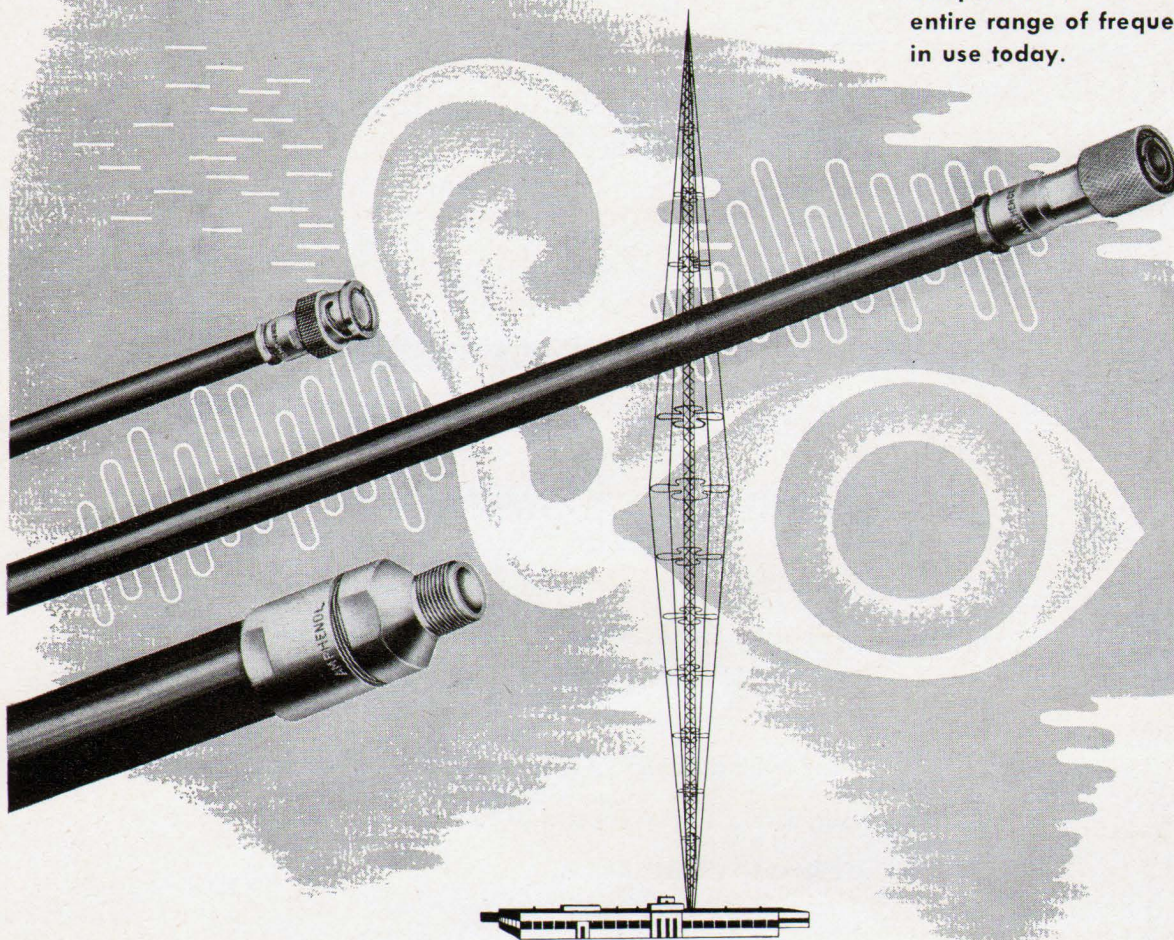
provides the link in

AM

FM

TV

A complete range of electronic components to serve the entire range of frequencies in use today.



• As the emphasis in communications development shifts more and more to the higher frequencies — notably FM and Television — the electrical circuits and the component parts involved require ever greater accuracy in performance. Amphenol engineers have always worked to help push forward the frontiers of the science of electronics — the unrivalled production facilities of Amphenol have supplied the quality components required by new developments in this field.

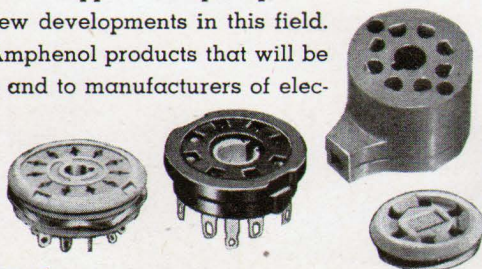
Among the newest Amphenol products that will be of interest to amateurs and to manufacturers of elec-

tronic equipment are: electrically better Hi-Q tube sockets, octal angle sockets for cathode ray and other tubes — Twin-Lead parallel transmission line — several FM receiving antennas — new cables, including some special ones for Television color cameras and for Facsimile work. Write for complete information.

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# Taylor Tubes

**Still Your BEST CHOICE for  
ALL INPUTS...ON ALL BANDS!**

- ★ CLASS C RADIO FREQUENCY
- ★ FREQUENCY MULTIPLYING
- ★ CRYSTAL OSCILLATOR
- ★ CLASS B AUDIO
- ★ POWER SUPPLIES

Taylor Tubes are the choice of Amateurs who insist on "More Watts per Dollar." With Taylor Tubes, they get the greatest possible "Safety Factor" which means protection against loss of tubes due to temporary overloads.

In rectifiers, the 866 Jr. and 866 A are the standard of comparison . . . more in use than all other makes combined.

The TZ-40 has been the leader in the medium power field for 8 years . . . it's still the tops in performance and value for both Class C RF and Class B Audio. Proof can be heard on the air daily.

The "Tuffy" TUF-20 has set a new standard in the portable-mobile field—a tube that can take it and put it out!

The new Taylor TB-35 Beam Tetrode has quickly established itself as a most popular type for ease of drive and for band-change rigs.

The Taylor Thin-Wall tubes—TW-75 and TW-150—are again winning many new friends for their fine performance.

That's just high-lighting a few of the famous Taylor Tubes. Others—the T-200 and the T-125—the T-20 and TZ-20—the 805 and 203 Z and the big 822 are again enjoying deserved popularity.

Most Hams know that they are safer with Taylor Tubes because they are protected by the generous Taylor Guarantee.

**SOLD BY ALL LEADING RADIO PARTS DISTRIBUTORS**

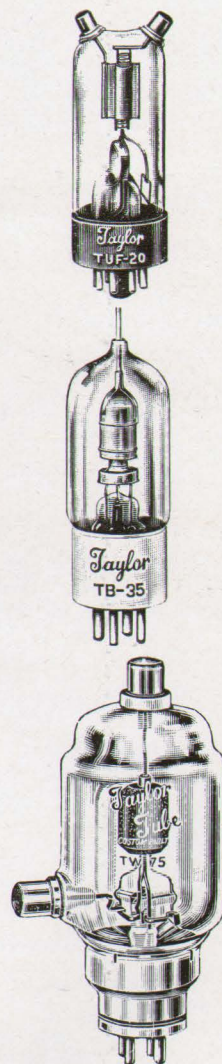
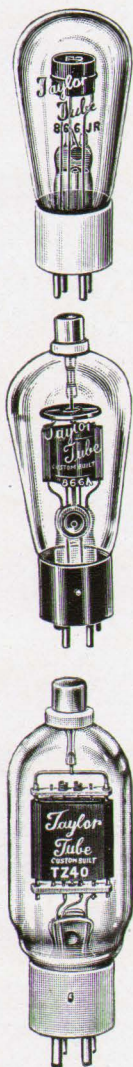
EXPORT DEPARTMENT  
**ROYAL NATIONAL CO.**  
75 West Street, New York 6, N. Y.  
CABLE—NATVARNCO

**SEND FOR 1946 TAYLOR MANUAL—FREE FOR THE ASKING**

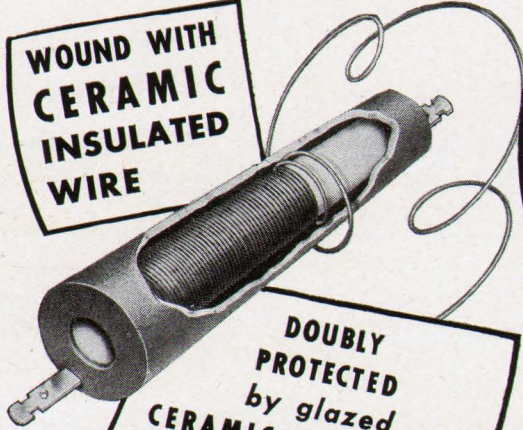
**Taylor** HEAVY **CUSTOM BUILT** DUTY **Tubes**

**TAYLOR TUBES INC., 2312-18 WABANSIA AVE., CHICAGO 47, ILL.**

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**WOUND WITH  
CERAMIC  
INSULATED  
WIRE**

**DOUBLY  
PROTECTED  
by glazed  
CERAMIC SHELLS and  
MOISTURE-PROOF END SEALS**

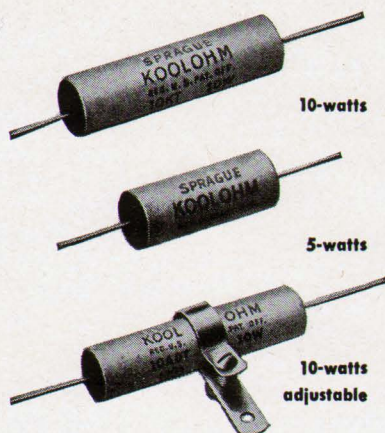


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ANY WAY...  
ANYWHERE!**

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—even in high-voltage circuits.

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**"TOPS" FOR HIGH-VOLTAGE USES!**



*Koolohms are made in a complete range of standard sizes from 5 to 120 watts as well as in many special industrial types.*

**... Use 'em at Full Wattage Ratings!**

For safety on high voltages, use Sprague Koolohms! The wire itself is insulated with 1000° C. heat-proof ceramic—then doubly protected by a glazed outer ceramic shell. Insulation resistance from the outer surface of the shell to the resistance element is 10,000 volts or better!

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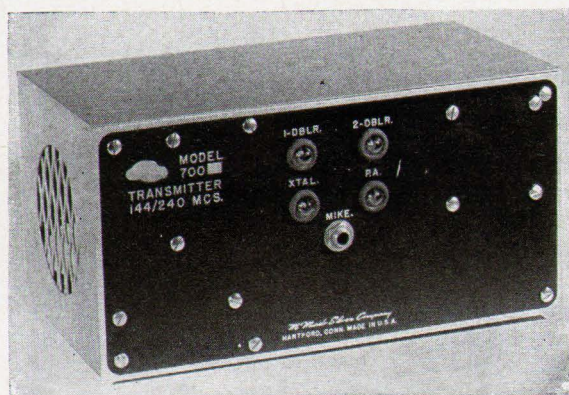
*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



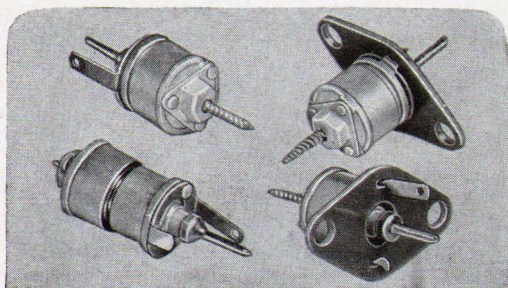
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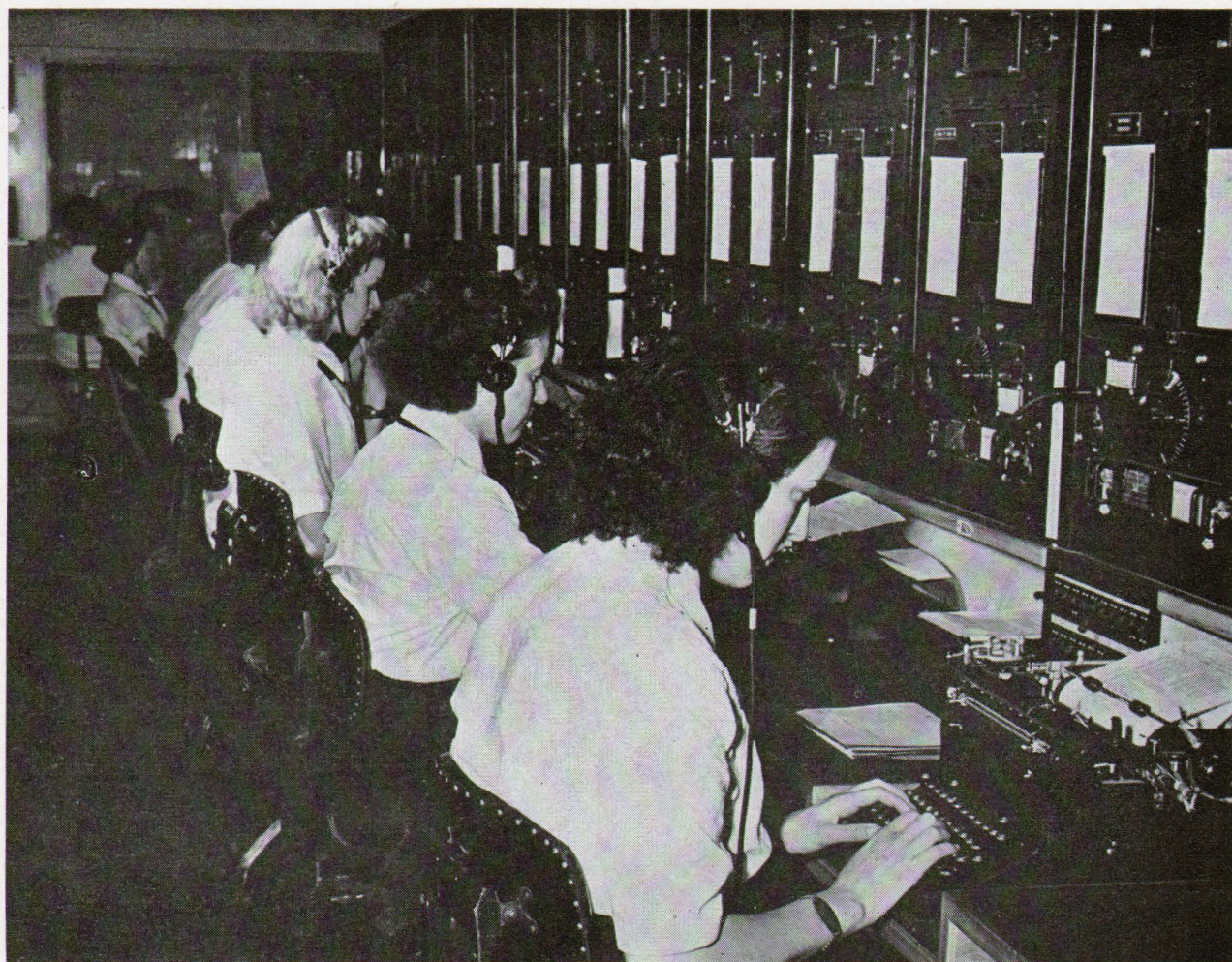
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